

Patent Claims

1. A drum flap having a part-cylinder surface, which forms a first region (2; 102; 302), with two
5 circle segment surfaces, which each form a second region (3; 103; 303), and having an externally surrounding rim (4; 104; 304), which is arranged substantially in two planes, projects outward and serves to bear against correspondingly designed
10 bearing surfaces, characterized in that the drum flap (1; 101; 201; 301; 301') has at least a second rim (5; 105; 305).
2. The drum flap as claimed in claim 1, characterized
15 in that the second rim (5) is provided in the first region (2) of the drum flap (1).
3. The drum flap as claimed in claim 1 or 2,
20 characterized in that the second rim (5) is provided in the second region (3).
4. The drum flap as claimed in one of claims 1 to 3,
25 characterized in that the second rim (105; 305) is arranged in a plane in which a pivot axis also lies, and projects outward, the plane in which the second rim (105; 305) lies being arranged in an angle between the other two planes in which the first rim (104; 304) lies.
- 30 5. The drum flap as claimed in one of claims 1 to 4, characterized in that the drum flap (1) has at least one opening in at least one segment (2", 3") of the first and/or second region (2 or 3, respectively), the segment (2", 3") being
35 delimited by two adjacent rims (4, 5).
6. The drum flap as claimed in one of claims 1 to 5, characterized in that a circular region (7), the thickness of which is designed to match the rims

(4, 5), is provided in the region of the pivot axis.

- 5 7. The drum flap as claimed in claim 1, characterized in that the second rim (105; 305) runs substantially around a third region (110), which directly or indirectly - separated by an intermediate region (340) - adjoins the lateral surface in the region of the first rim (104; 304).
- 10 8. The drum flap as claimed in claim 7, characterized in that the third region (110; 310) is approximately rectangular in form.
- 15 9. The drum flap as claimed in claim 7 or 8, characterized in that the planes in which the third region (310) and the intermediate region (340) lie are arranged at an angle not equal to 180° with respect to one another.
- 20 10. The drum flap as claimed in one of the preceding claims, characterized in that two outwardly protruding bearing journals (6) are provided on the pivot axis.
- 25 11. An air-conditioning system having an air guidance housing, characterized by a drum flap (1; 101; 201; 301; 301') as claimed in one of claims 1 to 10 arranged in the air guidance housing.
- 30 12. The air-conditioning system as claimed in claim 11, characterized in that the drum flap (1; 101; 201; 301; 301') serves as an air distributor flap and/or as a temperature mixing flap.